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APPLICATION N	O.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,683		03/26/2004	Hiroyuki Baba	SAT 201	7868
23995	7590	05/20/2005		EXAMINER	
RABIN (•	UNDERWOOD, DONALD W		
1101 14TH STREET, NW SUITE 500			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005				3652	
				DATE MAILED: 05/20/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/809,683	BABA, HIROYUKI					
Office Action Summary	Examiner	Art Unit					
	Donald Underwood	3652					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	·						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	•					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-8 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
· <u> </u>	5) Claim(s) is/are allowed.						
·	Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
of the state of th	Ciccion requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 032604.	5) Notice of Informal P	atent Application (PTO-152)					
C. Detect and Today of Office.							

Application/Control Number: 10/809,683

Art Unit: 3652

Detailed Action

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 5-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 5, it appears "attracting" in the last line should be --attract--.

Regarding claim 7, it is unclear what action is intended by the phrase "pressuring toward" in line 6 and "for accelerating the attraction" in the last line. Clarification is required. Also "a", first occurrence, in line 7 should be --an--.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over McI 1wraith et al in view of Izumida and Suzuki et al.

McI 1wraith teaches using a Bernouli pickup to move a circuit board for transfer. See McILwraith paragraph 0018.

Izumida teaches moving a circuit board to an exact location.

Suzuki teaches supplying an article to an exact pickup position and then picking it up for transfer.

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It would have been obvious to provide a conveyor for moving circuit boards as taught by Izumida to the transfer device in McI 1wraith in view of the teaching in Suzuki to provide a supply device for a transfer device.

Regarding the controller in claim 1, it would further have been obvious to correlate the movement between the conveyor and pickup in Mcl 1wraith as modified by Izumida in view of the teaching in Suzuki.

Regarding claim 5, at the end of the transporting path by the conveyor added to McI 1wraith the speed of translation of the board is zero as is the speed of the pickup until the pickup is complete and the pickup moves the board away. Note this claim does not require constant overlapping movement of the pickup and transporter.

5. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over McI1wraith et al in view of Izumida and Suzuki et al as applied to claim 1 above, and further in view of the following comments.

It would have been obvious to provide a pushing-up portion in the conveyor in Izumida to provide assistance to the pickup function in view of the teaching in Suzuki (element 10). Note the pushing-up portion would be activated once the board in Izumida was detected since activation prior to detection would obviate the need for pushing-up.

- 6. Thurman teaches correlating the speed between two horizontally translating conveyors.
- 7. Any inquiry concerning this communication should be directed to D. Underwood at telephone number 571-272-6933.

Manuel W. Underwood 05/17/05 DUNALD W. UNDERWOOD PRIMARY EXAMINER

Underwood/vs May 12, 2005